

TM243846V

21.11

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024
2023 ADMISSIONS REGULAR
SEMESTER III - CORE COURSE Clinical Nutrition And Dietetics
ND3C11TM20 - Clinical Biochemistry

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Write a note on the causes of metabolic syndrome.
2. Describe the structure of insulin.
3. Write a note on ketolysis.
4. Write the functions of apoproteins. Differentiate between Apo C and Apo E proteins.
5. Write the transport of chylomicron.
6. Briefly write a note on antioxidant enzymes.
7. Write a note on various laboratory tests to detect coagulation disorders.
8. Discuss on Abetalipoproteinemia.
9. Discuss on fabry's disease.
10. Discuss the methods to assess the functions of thyroid.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Explain the pathophysiology and complications of metabolic syndrome.
12. Discuss the effect of insulin and explain the metabolic derangement in macronutrient metabolism during diabetes mellitus.
13. Define ketone bodies. How is it synthesized and utilized in the body?
14. Explain VLDL synthesis, degradation and its components.
15. Explain the role of antioxidants in the pathophysiology of various diseases.
16. Differentiate between various types of thalassemias.
17. Discuss the inborn errors of phenylalanine metabolism.
18. Explain various types of thyroid function tests.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Define metabolic syndrome. Write the role of insulin in diabetes mellitus.
20. What is mineralocorticoid? Explain the classification, synthesis and functions of various prostaglandins.
21. Explain various types of thrombosis. Discuss different tests to check thrombolysis.
22. Explain various types of liver function tests.